

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	54	("5,630,110" "6,963,990" "6,295,568" "5,630,148" "5,664,165" "5,754,867" "6,763,478" "2004/0139363" "5,790,877" "6,2117" "1" "5" "5,918,061").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 08:23
L2	10	("5,630,110" "6,963,990" "6,295,568" "5,630,148" "5,664,165" "5,754,867" "6,763,478" "2004/0139363" "5,790,877" "6,2117" "1" "5" "5,918,061").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/17 09:49
L3	1	I1 and bandwidth	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 09:50
L4	3	("5764968"   "5983297"   "6081863").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/17 08:08
L5	10	("6295568").URPN.	USPAT	OR	ON	2006/07/17 08:21
L6	1	("5778237").PN.	USPAT	OR	ON	2006/07/17 08:22
L7	2797	(clock near3 (frequenc\$3 or speed or rate))with bandwidth	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 08:24
L8	51	(clock near3 (frequenc\$3 or speed or rate))with (bandwidth near3 (information or characteristic\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 09:50
L9	5	((determin\$5 or select\$4 or sett\$3 or set or choss\$3 or choos\$4)near3 (clock near3 (frequenc\$3 or speed or rate)))with (bandwidth near3 (information or characteristic\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 09:53
L10	12	("6,484222" "6,564,279" "6,134,621" "5,930,496" "6,954813" "6,070,207" "6,185,692" "6,772,263" "5,815,734" "6,714,890" "6,948,020" "6,782,438").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/17 09:49

## EAST Search History

L11	0	I10 and ((clock near3 (frequenc\$3 or speed or rate))with (bandwidth near3 (information or characteristic\$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 09:50
L12	5	I10 and bandwidth	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 09:50
L13	6	((determin\$5 or select\$4 or sett\$3 or set or choss\$3 or choos\$4)near3 (clock near3 (frequenc\$3 or speed or rate)))with ((bandwidth or (bus adj2 width)or ("32" or "64") adj bit\$1)) near3 (information or characteristic\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 09:55
L14	9	((determin\$5 or select\$4 or sett\$3 or set or choss\$3 or choos\$4 or generat\$4)near3 (clock near3 (frequenc\$3 or speed or rate)))with ((bandwidth or (bus adj2 width)or ("32" or "64") adj bit\$1)) near3 (information or characteristic\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 09:59
L15	0	((determin\$5 or select\$4 or sett\$3 or set or choss\$3 or choos\$4 or generat\$4)near3 (clock near3 (frequenc\$3 or speed or rate)))with ((bandwidth or (bus adj2 width)or ("32" or "64") adj bit\$1))with ((device or chip or IC)near2 (information or characteristic\$1)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 10:36
L16	14	"5935232".uref.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 10:31
L17	2	"5935232".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 10:31

## EAST Search History

L18	35	("4096571"   "4339808"   "4682282"   "4953081"   "4972313"   "4974148"   "5146596"   "5245322"   "5265223"   "5274763"   "5274784"   "5278974"   "5345566"   "5392033"   "5396602"   "5404463"   "5463624"   "5467454"   "5471590"   "5524235"   "5526017"   "5533205"   "5535341"   "5546546"   "5572686"   "5574867"   "5583999"   "5606557"   "5627975"   "5627976"   "5682484"   "5710892"   "5748806"   "5754548"   "5754807").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/17 10:31
L19	0	((determin\$5 or select\$4 or sett\$3 or set or choss\$3 or choos\$4 or generat\$4)near3 (clock near3 (frequenc\$3 or speed or rate)))with (((device or chip or IC)near2 (information or characteristic\$1))with((bandwidth or (bus adj2 width)or (("32" or "64") adj bit\$1))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 10:39
L20	26526	"713"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 10:40
L21	0	I20 and (((determin\$5 or select\$4 or sett\$3 or set or choss\$3 or choos\$4 or generat\$4)near3 (clock near3 (frequenc\$3 or speed or rate)))with (((device or chip or IC)near2 (information or characteristic\$1))with((bandwidth or (bus adj2 width)or (("32" or "64") adj bit\$1)))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 10:40
L22	26445	"710"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 12:52

## EAST Search History

L23	0	I22 and (((determin\$5 or select\$4 or sett\$3 or set or chos\$3 or choos\$4 or generat\$4)near3 (clock near3 (frequenc\$3 or speed or rate)))with (((device or chip or IC)near2 (information or characteristic\$1))with((bandwidth or (bus adj2 width)or ("32" or "64") adj bit\$1))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 10:41
L24	0	I22 and (((determin\$5 or select\$4 or sett\$3 or set or chos\$3 or choos\$4 or generat\$4)near3 (clock near3 (frequenc\$3 or speed or rate)))same (((device or chip or IC)near2 (information or characteristic\$1))with((bandwidth or (bus adj2 width)or ("32" or "64") adj bit\$1))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 10:41
L25	3	I20 and (((determin\$5 or select\$4 or sett\$3 or set or chos\$3 or choos\$4 or generat\$4)near3 (clock near3 (frequenc\$3 or speed or rate)))same (((device or chip or IC)near2 (information or characteristic\$1))with((bandwidth or (bus adj2 width)or ("32" or "64") adj bit\$1))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 12:53
L26	1	((determin\$5 or select\$4 or sett\$3 or set or chos\$3 or choos\$4 or generat\$4)near3 (clock near3 (frequenc\$3 or speed or rate)))same (((device or chip or IC)near2 (information or characteristic\$1))with((bandwidth or (bus adj2 width)or ("32" or "64") adj bit\$1))).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 10:42
L27	112504	"455"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 12:53
L28	99515	"370"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 12:53

## EAST Search History

L29	66585	"375"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 12:53
L30	0	I27 and (((determin\$5 or select\$4 or sett\$3 or set or choss\$3 or choos\$4 or generat\$4)near3 (clock near3 (frequenc\$3 or speed or rate)))same (((device or chip or IC)near2 (information or characteristic\$1))with((bandwidth or (bus adj2 width)or (("32" or "64") adj bit\$1))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 12:53
L31	0	I28 and (((determin\$5 or select\$4 or sett\$3 or set or choss\$3 or choos\$4 or generat\$4)near3 (clock near3 (frequenc\$3 or speed or rate)))same (((device or chip or IC)near2 (information or characteristic\$1))with((bandwidth or (bus adj2 width)or (("32" or "64") adj bit\$1))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 12:53
L32	0	I29 and (((determin\$5 or select\$4 or sett\$3 or set or choss\$3 or choos\$4 or generat\$4)near3 (clock near3 (frequenc\$3 or speed or rate)))same (((device or chip or IC)near2 (information or characteristic\$1))with((bandwidth or (bus adj2 width)or (("32" or "64") adj bit\$1))))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/17 12:53


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Relevance scale


**1 Energy constraints on parameterized models**

Andrew Witkin, Kurt Fleischer, Alan Barr

**August 1987 ACM SIGGRAPH Computer Graphics , Proceedings of the 14th annual conference on Computer graphics and interactive techniques SIGGRAPH '87, Volume 21 Issue 4**
**Publisher:** ACM Press

 Full text available: [pdf\(3.73 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A simple but general approach to imposing and solving geometric constraints on parameterized models is introduced, applicable to animation as well as model construction. Constraints are expressed as energy functions, and the energy gradient followed through the model's parameter space. Intuitively, energy constraints behave like forces that pull and parametrically deform the parts of the model into place. A wide variety of geometric constraints are amenable to this formulation, and may be used t ...

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`Where are the sales offices?`

- Capitalize proper nouns to search for specific people, places, or products.

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`"museum of natural history" "museum of modern art"`

- Narrow your searches by using a **+** if a search term must appear on a page.

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`museum -Paris`

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`museum +"natural history" dinosaur -Chicago`

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`museum +"natural history" dinosaur -Chicago`

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`museum +art`

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`museum -Paris`

Combine these techniques to create a specific search query. The better your description of the information you want, the more relevant your results will be.

`museum +"natural history" dinosaur -Chicago`

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Relevance scale

### 1 A 4 Gsamples/S with 2-4 GHz Input Bandwidth SiGe Digitizer for Radio Astronomy Applications

D. Deschans, J-B. Begueret, Y. Deval, C. Scarabello, P. Fouillat, G. Montignac, A. Baudry  
 September 2002 **Proceedings of the 15th symposium on Integrated circuits and systems design**

**Publisher:** IEEE Computer Society

Full text available: [\[PDF\]](#) [Publisher Site](#) Additional Information: [full citation](#), [abstract](#)

This paper presents the design details and the measurement results of a high speed A/D converter (ADC or digitizer) developed specifically for radio-astronomy applications. This monolithic digitizer is implemented in a SiGe BiCMOS process for high frequency mixed-signal applications. The principal characteristics of this circuit are a 2 bits resolution with 3 quantization levels (or 1.5 bits), a wide input bandwidth from 2 GHz up to 4 GHz and a sampling rate of 4 Gsamples/s (Gps). The architect ...

### 2 Processor frequency setting for energy minimization of streaming multimedia application

Andrea Acquaviva, Luca Benini, Bruno Riccò  
 April 2001 **Proceedings of the ninth international symposium on Hardware/software codesign**

**Publisher:** ACM Press

Full text available: [\[PDF\]](#) (401.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we describe a software-controlled approach for adaptively minimizing energy in embedded systems for realtime multimedia processing. Energy is optimized by clock speed setting: the software controller dynamically adjusts processor clock speed to the frame rate requirements of the incoming multimedia stream. The speed-setting policy is based on a system model that correlates clock speed with best-case, average-case and worst-case sustainable frame rate, accounting for data-depend ...

### 3 Architectures: The SFRA: a corner-turn FPGA architecture

Nicholas Weaver, John Hauser, John Wawrzynek

February 2004 **Proceedings of the 2004 ACM/SIGDA 12th international symposium on Field programmable gate arrays**

**Publisher:** ACM Press

Full text available: [\[PDF\]](#) (234.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

FPGAs normally operate at whatever clock rate is appropriate for the loaded configuration. When FPGAs are used as computational devices in a larger system, however, it is better to employ fixed-frequency FPGAs operating at a high clock frequency. Such fixed-frequency arrays require pipelined interconnect structures, which are difficult to support in a traditional FPGA architecture. We have developed a novel approach, called a "corner-

"turn" interconnect, based on a Manhattan array of logically de ...

**Keywords:** FPGA CAD, FPGA architecture, FPGA design study, FPGA optimization

- 4 RF and data communication circuits: High speed differential pulse-width control loop  
 based on frequency-to-voltage converters

Hung Tien Bui, Yvon Savaria

April 2006 **Proceedings of the 16th ACM Great Lakes symposium on VLSI GLSVLSI '06**

**Publisher:** ACM Press

Full text available:  pdf(127.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A novel differential pulse-width control loop circuit based on high speed frequency-to-voltage converters is proposed. To demonstrate its functionality, a circuit has been designed and simulated in 0.18mm CMOS technology. Results show that the proposed circuit can correct a clock signal's duty cycle even for frequencies as high as 5 GHz. This design can be used to correct clock signal distortion due to process variations in high speed applications such as half-rate clock and data recovery system ...

**Keywords:** PWCL, duty cycle, frequency-to-voltage, high-speed

- 5 VSV: L2-Miss-Driven Variable-Supply-Voltage Scaling for Low Power  


Hai Li, Chen-Yong Cher, T. N. Vijaykumar, Kaushik Roy

December 2003 **Proceedings of the 36th annual IEEE/ACM International Symposium on Microarchitecture**

**Publisher:** IEEE Computer Society

Full text available:  pdf(205.58 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Energy-efficient processor design is becoming more and more important with technology scaling and with high performance requirements. Supply-voltage scaling is an efficient way to reduce energy by lowering the operating voltage and the clock frequency of processors simultaneously. We propose a variable supply-voltage scaling (VSV) technique based on the following key observation: upon an L2 miss, the pipeline performs some independent computations but almost always ends up stalling and waiting for data, and ...

- 6 Poster session IV: A fractional delay-locked loop for on chip clock generation  


 applications

P. Torkzadeh, A. Tajalli, M. Atarodi

January 2005 **Proceedings of the 2005 conference on Asia South Pacific design automation ASP-DAC '05**

**Publisher:** ACM Press

Full text available:  pdf(469.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

A fractional multiplying delay-locked loop (FMDLL) for high speed on-chip clock generation applications is presented. The proposed DLL architecture overcomes some drawbacks of phase-locked loops (PLLs) such as jitter accumulation and stability while maintaining the advantages of a PLL as a multi-rate fractional frequency multiplier. The output frequency range can be tuned from 1GHz to 2.5GHz with selectable multiplication ratios of  $M + 0.05 \times K$  where  $1 \leq K \leq 19$ . To go ...

- 7 Poster session III: Cluster-based detection of SEU-caused errors in LUTs of SRAM-based FPGAs  


 E. Syam Sundar Reddy, Vikram Chandrasekhar, M. Sashikanth, V. Kamakoti, N. Vijaykrishnan

January 2005 **Proceedings of the 2005 conference on Asia South Pacific design automation ASP-DAC '05**

**Publisher:** ACM Press

Full text available:  pdf(337.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper proposes a cluster-based parity-checking technique that can detect 100% of all Single Event Upset (SEU) faults in the LUTs of SRAM-based FPGAs. The paper describes two different Configurable Logic Block (CLB) architectures that could be used to implement the proposed SEU detection technique. Of the two, the first architecture can perform at-speed testing of the LUTs without interrupting the normal functioning of the FPGA. The second one works by switching the CLBs from normal-mode to ...

**8 Poster session: A high-speed successive erasure BCH decoder architecture**



Thomas Buerner

February 2003 **Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays**

Publisher: ACM Press

Full text available: [pdf\(187.05 KB\)](#) Additional Information: [full citation](#), [abstract](#)

A new high speed architecture for a BCH successive erasure decoder is presented. The Berlekamp-Massey based decoder by Sarwate and Shanbhag is extended to handle successive erasures. The critical path in the calculation submodules is increased from Tadd+Tmult to Tadd+Tmult+Tmux. The proposed architecture is implemented exemplary for a BCH(63,45,7) code with up to two erasures on a XILINX Spartan2E300-7. Thus a clock frequency of 95 MHz is reached using 47% of the available slices instead of 105 ...

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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

 1. Cost reduction in the CCD realization of MVMT functions

Abd-El-Barr, M.H.; Vranesic, Z.G.;  
Computers, IEEE Transactions on  
 Volume 39, Issue 5, May 1990 Page(s):702 - 706  
 Digital Object Identifier 10.1109/12.53584  
[AbstractPlus](#) | Full Text: [PDF\(360 KB\)](#) [IEEE JNL](#)  
[Rights and Permissions](#)

 2. Algorithmic synthesis of MVL functions for CCD implementation

Abd-El-Barr, M.H.; Vranesic, Z.G.; Zaky, S.G.;  
Computers, IEEE Transactions on  
 Volume 40, Issue 8, Aug. 1991 Page(s):977 - 986  
 Digital Object Identifier 10.1109/12.83641  
[AbstractPlus](#) | Full Text: [PDF\(796 KB\)](#) [IEEE JNL](#)  
[Rights and Permissions](#)

 3. CMOS multiple-valued logic design. II. Function realization

Jain, A.K.; Bolton, R.J.; Abd-El-Barr, M.H.;  
Circuits and Systems I: Fundamental Theory and Applications, IEEE Transactions on [see also  
Circuits and Systems I: Regular Papers, IEEE Transactions on[see also]  
 Volume 40, Issue 8, Aug. 1993 Page(s):515 - 522  
 Digital Object Identifier 10.1109/81.242321  
[AbstractPlus](#) | Full Text: [PDF\(532 KB\)](#) [IEEE JNL](#)  
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 4. CMOS multiple-valued logic design. I. Circuit Implementation

Jain, A.K.; Bolton, R.J.; Abd-El-Barr, M.H.;  
Circuits and Systems I: Fundamental Theory and Applications, IEEE Transactions on [see also  
Circuits and Systems I: Regular Papers, IEEE Transactions on[see also]  
 Volume 40, Issue 8, Aug. 1993 Page(s):503 - 514  
 Digital Object Identifier 10.1109/81.242320  
[AbstractPlus](#) | Full Text: [PDF\(764 KB\)](#) [IEEE JNL](#)  
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 5. Pure phase-encoded MRI and classification of solids

Ghosh, P.; Laidlaw, D.H.; Fleischer, K.W.; Barr, A.H.; Jacobs, R.E.;  
Medical Imaging, IEEE Transactions on  
 Volume 14, Issue 3, Sept. 1995 Page(s):616 - 620  
 Digital Object Identifier 10.1109/42.414627  
[AbstractPlus](#) | Full Text: [PDF\(516 KB\)](#) [IEEE JNL](#)  
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- 6. **Partial-volume Bayesian classification of material mixtures in MR volume data using voxel histograms**  
Laidlaw, D.H.; Fleischer, K.W.; Barr, A.H.;  
Medical Imaging, IEEE Transactions on  
Volume 17, Issue 1, Feb. 1998 Page(s):74 - 86  
Digital Object Identifier 10.1109/42.668696  
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